



# ARTIFICIAL INTELLIGENCE IN CARDIAC MANAGEMENT

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## Abstract

Heart disease is reported to be one of the leading causes of death worldwide. there was an increase. We need to develop new technologies and strategies to improve existing heart disease management. In recent usage Artificial intelligence has a huge global impact and is being used in the healthcare sector as well. It is majorly used in the diagnosis and management of diseases. There have been extensive studies to tap into different health Care application using artificial intelligence tools. On this basis, there are extensive scientific studies of Management of heart disease using various tools. Therefore, the current research focuses on artificial implementation The principle of intelligence to manage and control the state of the heart.

**KEYWORDS:** Artificial intelligence, DEC, heart management, medicine To get started

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## I. INTRODUCTION

Cardiovascular disease is one of the leading causes of mortality worldwide. Eating habits have a big It affected heart disease due to the consumption of dirty food and junk food. This street food of low grade Cooking increases the risk of heart disease. Blood will eventually get cloth in the arteries, which increases the risk Heart attacks and other heart diseases [1,2]. In recent years, heart disease has also been found in teenagers because of them In general, spending most of the time outside the house and eating food is a very prior requirement for everyone, But these are also found in these times, because they are nothing but junk food. Since everything is online In the world of technology, you can treat yourself in your home by the intelligence of artificial help that allows you to reach out To the doctor. He will tell you the solution and the cure to your condition. He may try to cure you with some Exercise at the start, as medications may treat you immediately. Still, it has

some side effects that may produce something new Issue so that you can easily get cured in your home. If you need immediate assistance, please allow artificial intelligence To reach out to it as soon as you ask a question. Cardiology is a large field that focuses on diseases related to the heart, Circulatory system, and function. There are many cardiovascular diseases like coronary artery disease, stroke and heart Failure, congenital heart disease, and many others that require great concern from doctors for better treatment Faster treatment [2-5]. Recently, artificial intelligence (AI) has become an indispensable tool in medical science. It replaces real humans and simulates human intelligence into programmed machines. It also mimics human behavior. It is mostly used in medicine, especially to those people whose life is at high risk. It is...It helps to monitor patients without intervention.

## II. THE AI RECORDS A PATIENT'S RESPONSE TO A DOCTOR'S QUESTION AS FOLLOWS:

It can be determined and analyzed later. The voice technology that is DEC's voice, combined with artificial intelligence, looks like this: Record and respond. Factors for the Use of Artificial Intelligence in Heart Management and its Importance in Digital Era. It is not new, but it still discusses its successes and failures. Artificial intelligence found immediate remote Monitoring of high-risk patients by the medical sector. Artificial intelligence is done to monitor without Patient interference. In some cases, regular patient monitoring is mandatory. It becomes necessary to guarantee timely Mediation by a doctor or health care professional to deliver the right medication and treatment on time. Conditions with high-risk patients such as cardiology, neurology, obstetrics, etc. Require regular monitoring for immediate

Care [6-8]. As the cost of hospitalization is increasing day by day, health insurance companies are encouraging Patients do not spend their time in hospital until it is necessary. There is a cost of today's time

There is an increase in hospitalizations, and treatments such as chemotherapy, infusion therapy and antibiotic therapy are carried out. Is It is considered to be a safe treatment and can be regarded as cost effective compared to home treatments. FDA approved Multiple injection devices to prescribed for patients with regular use at intervals. It is used in many situations

As in obstetrics for patients to provide accurate data even from childbirth [6,7]. But such fortitude required patient contributions and interference. There are many situations of participants Participation is not allowed, but it is not trusted, but patient monitoring is still necessary. If we take an example Cardiac

patients, it requires high and reliable control to take care of the patient's condition, which required nurses to It was necessary to meet the patient every day and present it for the doctor or nurse to monitor the patient. This is Maximize the number of patients who can be protected at a given time of care. there are some Solutions provided by the Health Maintenance Organization (HMO) to solve the above problems. It makes signals representing the patient's condition in prior art and confirms them for monitoring later to record Halter Heart Monitor used for recording 5 hours of patient's electrocardiogram by Doctor's Example – Monitor

## III. BASIC DELIBERATIONS ON PROVIDING IMPROVED HEALTH MONITORING SERVICES FOR HIGH-RISK

The following facts –

- The doctor is responsible for determining a timely method for appointments during monitoring

Interaction; whether appointment is necessary or not.

- Doctors have the opportunity to decide whether a high-risk patient needs urgent treatment or change

Continuous treatment.

- Patients may intrusive monitoring, especially in the case of acute hypertension.

Cases of patients or some severe perinatal cases.

- It is necessary to minimize the use of nurses and other health workers to pay attention to the patient personally And do the monitoring work.
- Using any acoustic telephone device like a modem is not desirable to use to monitor the patient's purpose.

- Need to attend many dangerous patients at the same time for doctor intervention to save many lives Focus on everyone, completely.

Previous approaches often help to get the actual data recorded to assess the patient's condition

Their doctor. Current producing provides health monitoring system with monitoring way through the machine Learning without patient interference while using artificial intelligence. Many patients are located remotely, so they look like It is generally monitored through phone help and artificial intelligence technology. These techniques help us to handle People in low coats in their homes only, and these are normally controlled by the staff or doctors who have all The right doctor's instructions and guidelines. There is an option that the patient can ask questions, and it will look like this

Answered with preloaded questions and answers updated by your doctor or their medical team. and these technologies If necessary, you can view the answers to previous questions, increase the level of conservation or contact with Doctors so that they can give you the best care from their side. These patients become great marketing tools for Healthcare industry as they get the benefit of consulting directly to a leading clinic without spending money

Electricity bill[9,10]

It can also provide multi-monitoring features that allow us to monitor several persons at a time with having Another type of problem. The technology promises to reduce the budgets and spending of as many as 25 hospitals Healthcare professionals, or people who help during treatment by reducing the risk of quality of service. In addition, it can provide doctors to see after their patients at specific interval time and advise and help them to cure Myself a little faster. It also helps to reduce unnecessary visits to the doctor. Artificial intelligence voice technology

Provides patients and doctors to ask for medical-related inquiries that are already there in the system needed by

Demonstrate doctors and medical staff. AI Z voice technology gives us features like voice recording so whenever you are patient Essential, call monitoring and call forwarding and alarm that enable patients to meet doctors online whenever necessary.

The patient has high heart risk and can easily connect with if they are not able to move because they have no 1 nearby

Doctors can cure them for the essential needs needed for the patient immediately when he has cardiac arrest To save their lives. If the patient is already registered, the available doctor will get all the previous Records and details so that he or she can be treated correctly [11-13]. Doctors who use these technologies can use their systems as clinical tools and treat a single high-risk patient

At one time, they focus on the treatment of that patient, which allows the patient to be guided according to the doctor's guidelines Feed the doctor in a system that is already controlled by artificial intelligence. Many options are offered Many AI-built companies, like some, offer to connect 48 remote patients at a time and treat them at once With the help of multi-embedded artificial intelligence system.

Artificial intelligence also helps doctors make many medical problems and some medical devices like ventilators, Automatic blood pressure measurement machine, Pulse oximeter, sugar testing kit, ECG machine [12-14].

Development in the field of artificial intelligence In the digital age where everyone is focused on the technology development industry merging with the healthcare industry

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